CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.10/NNR/CEMENT/2012-13

Date: 21.03.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. N. Naveen Rao,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of RCC Drain, Covering Slab and Improvements to Roads at Kalappa Layout in Ward No.10, Doddabommasandra, Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/VSD/PR/461/2012-13 Dated: 18.03.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	475 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50 %	-

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Job No.: CTCE/BBMP/W.No.10/NNR/SAND/2012-13 : 21.03.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. N. Naveen Rao,** Contractor, Bangalore.

Name of Work : Construction of RCC Drain, Covering Slab and Improvements to Roads at Kalappa Layout in Ward No.10, Doddabommasandra, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VSD/PR/461/2012-13 Dated: 18.03.2013

Date of Testing : 21.03.2013

Material : Sand

Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	102	5.10	5.10	94.9	90-100
2.36	224	11.20	16.30	83.7	75-100
1.18	516	25.80	42.10	57.9	55-90
600 Micron	423	21.15	63.25	36.8	35-59
300 Micron	491	24.55	87.80	12.2	8-30
150 Micron	198	9.90	97.70	2.3	0-10

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Job No.: CTCE/BBMP/W.No.10/NNR/AGG/2012-13 : 21.03.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. N. Naveen Rao,** Contractor, Bangalore.

Name of Work : Construction of RCC Drain, Covering Slab and Improvements to Roads at Kalappa Layout in Ward No.10, Doddabommasandra, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VSD/PR/461/2012-13 Dated: 18.03.2013

Date of Testing : 21.03.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **26000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	995	3.83	3.83	96.17	95-100
20	15425	59.33	63.15	36.85	30-70
10	6680	25.69	88.85	11.15	10-35
4.75	2595	9.98	98.83	1.17	0-5

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Job No.: CTCE/BBMP/W.No.10/NNR /STEEL/2012-13

25.03.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. N. Naveen Rao**, Contractor, Bangalore.
Name of the work	:	Construction of RCC Drain, Covering Slab and Improvements to Roads at Kalappa Layout in Ward No.10, Doddabommasandra, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/VSD/PR/461/2012-13 Dated: 18.03.2013
Date of Test	:	25.03.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
2	10	0.62	513	550	13.35	O.K	O.K
3	12	0.89	515	554	13.80	O.K	O.K

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Job No.: CTCE/BBMP/W.No.10/NNR/CUBE/2012-13

25.04.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. N. Naveen Rao,** Contractor, Bangalore.
Name of the work	: Construction of RCC Drain, Covering Slab and Improvements to Roads at Kalappa Layout in Ward No.10, Doddabommasandra, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/VSD/PR/461/2012-13 Dated: 18.03.2013
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.03.2013	25.04.2013	8.269	521.6	23.18
2	28.03.2013	25.04.2013	8.174	527.2	23.43
3	28.03.2013	25.04.2013	8.362	535.8	23.81

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Job No.: CTCE/BBMP/W.No.10/NNR/CUBE/2012-13

27.04.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. N. Naveen Rao,** Contractor, Bangalore.
Name of the work	: Construction of RCC Drain, Covering Slab and Improvements to Roads at Kalappa Layout in Ward No.10, Doddabommasandra, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/VSD/PR/461/2012-13 Dated: 18.03.2013
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.03.2013	27.04.2013	8.471	531.7	23.63
2	30.03.2013	27.04.2013	8.364	526.8	23.41
3	30.03.2013	27.04.2013	8.219	514.4	22.86

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